PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	se	e Form PCT/ISA/220							
11253P-WO	ACTION		where applicable, item 5 below.							
International application No.	International filing date (day/month	year) (E	arliest) Priority Date (day/month/year)							
PCT/EP2004/003804	08/04/2004		09/04/2003							
Applicant		_ -								
GENERAL ELECTRIC COMPANY										
This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.										
This International Search Report consists	of a total of she	ets.								
It is also accompanied by a copy of each prior art document cited in this report.										
1. Basis of the report										
 With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 										
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).										
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 1.										
2. Certain claims were fou	nd unsearchable (See Box II).									
3. Unity of invention is lac	king (see Box III).									
4. With regard to the title,										
X the text is approved as su	ubmitted by the applicant.									
the text has been established by this Authority to read as follows:										
	·									
5. With regard to the abstract,										
X the text is approved as su	ubmitted by the applicant.									
			it appears in Box No. IV. The applicant							
may, within one month tro	om the date of mailing of this internat	onai search re	eport, submit comments to this Authority.							
6. With regards to the drawings,										
a. the figure of the drawings to be p	published with the abstract is Figure	lo. <u>1</u>								
X as suggested by	• •		_							
	is Authority, because the applicant fa									
	is Authority, because this figure bette be published with the abstract.	і спагастепі z e	s me mvention.							
i. Li none or the figures is to b	o publica with the abouton									

International Application No
PCT/EP2004/003804

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02J3/38 F03D F03D9/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO2J F03D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, INSPEC, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Ρ,Χ WO 03/030329 A (WOBBEN ALOYS) 1 - 2110 April 2003 (2003-04-10) abstract page 14, paragraph 5 - page 18, paragraph page 20, paragraph 4 - page 21, paragraph claims 7,8,10,11,15 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when tho document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 13 July 2004 21/07/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Lorenzo Feijoo, S Fax: (+31-70) 340-3016

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J SVENSSON AND P KARLSSON: "Wind Farm Control Software Structure" THIRD INTERNATIONAL WORKSHOP ON TRANSMISSION NETWORKS FOR OFFSHORE WIND FARMS, 'Online! April 2002 (2002-04), XP002254250 Stockholm Retrieved from the Internet: URL:http://www.iea.lth.se/{ielper/DistributedPowerSystems/OffshoreWindFarms2002-paper.pdf> 'retrieved on 2003-09-01! the whole document	1,3-7, 12-14, 16,20,21
X	A DE LEMOS PEREIRA: "Modular Supervisory controller for hybrid systems" PHD THESIS, 'Online! June 2000 (2000-06), page 1, XP002254251 Roskilde Retrieved from the Internet: URL:http://www.risoe.dk/rispubl/VEA/veapdf/ris-r-1202.pdf> 'retrieved on 2003-09-11! page 17 - page 21	1-6,13
X	DE 196 20 906 A (SIEMENS AG) 8 January 1998 (1998-01-08) abstract; figure 3 column 7; figure 6	7-11,14, 15
X	P CHRISTIANSEN, K K JORGENSEN, A G SORENSEN: "Grid Connection and Remote Control for the Horns Rev 150 MW Offshore Wind Farm in Denmark" FIRST/SECOND INTERNATIONAL WORKSHOP ON TRANSMISSION NETWORKS FOR OFFSHORE WIND FARMS, 'Online! March 2001 (2001-03), pages 1-11, XP002254252 Stockholm Retrieved from the Internet: URL:http://www.owen.eru.rl.ac.uk/workshop_ 4/pdfs/owen_Christiansen.pdf> 'retrieved on 2003-09-11! pages 3-4 pages 10-11	1,4-7, 13,14

3

International Application No
PCT/EP2004/003804

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	TAPIA A ET AL: "Modeling and dynamic regulation of a wind farm" 7TH IEEE INTERNATIONAL POWER ELECTRONICS CONGRESS. TECHNICAL PROCEEDINGS. CIEP 2000 (CAT. NO.00TH8529), PROCEEDINGS OF CIEP 2000. 7TH IEEE INTERNATIONAL POWER ELECTRONICS CONGRESS, ACAPULCO, MEXICO, 15-19 OCT. 2000, October 2000 (2000-10), pages 293-297, XP010527924 2000, Piscataway, NJ, USA, IEEE, USA ISBN: 0-7803-6489-9 the whole document	7-9,11, 14		
А	DE 100 22 974 A (WOBBEN ALOYS) 22 November 2001 (2001-11-22) abstract paragraph '0016! - paragraph '0019!; claims 1,2,4-6; figures 3,4	1,2,4,6,		
A	KONLOGIANNIS C C ET AL: "An efficient power management and control in wind parks by means of a radio telemetry control system" ELECTROMOTION'01. 4TH INTERNATIONAL SYMPOSIUM ON ADVANCED ELECTROMECHANICAL MOTION SYSTEMS. PROCEEDINGS, PROCEEDINGS OF 4TH INTERNATIONAL SYMPOSIUM ON ADVANCED ELECTROMECHANICAL MOTION SYSTEMS — ELECTROMOTION 2001, BOLOGNA, ITALY, 19-20 JUNE 2001, October 2001 (2001-10), pages 461-465 vol.2, XP001154444 2001, Bologna, Italy, Univ. Bologna, Italy ISBN: 88-900615-0-2 the whole document	1,6,7		
A	US 2002/029097 A1 (LEE MARK I ET AL) 7 March 2002 (2002-03-07) abstract; figures 1A,1B paragraph '0006! - paragraph '0010! paragraph '0069! paragraph '0180!			

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Information on patent family members

International Application No
PCT/EP2004/003804

Patent document cited in search report		Publication date	1	Patent family member(s)	Publication date
WO 03030329	A	10-04-2003	CA WO EP	2460724 A1 03030329 A1 1433238 A1	10-04-2003 10-04-2003 30-06-2004
DE 19620906	Α	08-01-1998	DE WO EP	19620906 A1 9745908 A1 0939995 A1	08-01-1998 04-12-1997 08-09-1999
DE 10022974	A	22-11-2001	DE AT CA CA CDE DK WOP EP MO PT US ZA	10022974 A1	22-11-2001 15-09-2003 20-11-2001 08-11-2002 08-11-2002 20-08-2003 06-03-2003 09-10-2003 29-12-2003 15-11-2001 12-02-2003 17-12-2003 01-05-2004 25-11-2003 31-12-2002 10-01-2003 30-01-2004 21-08-2003 20-08-2003
US 2002029097	A1	07-03-2002	WO	0177525 A1	18-10-2001